Broaden your HD horizons

POWERFUL PC PERFORMANCE

Enjoy the powerful performance of Intel® Core™ 2 Duo T9900-T6600 processors (3.06GHz-2.20GHz)[1] with available Intel® Centrino® 2 processor technology and up to 8GB of pre-installed system memory.

The VAIO® FW notebook comes pre-installed with Genuine Microsoft® Windows® 7 Ultimate, Professional or Home Premium 64-bit[14].

Tackle virtually any graphics requirement with an optional ATI Mobility Radeon™ HD 4650 graphics card with 512MB or 1GB of dedicated video RAM[13].

Built-in Wireless-N technology offers a boost in wireless connection speed and range[3].

BORN FROM SONY® HD TECHNOLOGY

Fall in love with your favorite movies all over again. With an extra-wide, theater inspired 16.4"[4] display, see stunning ,true-to-life images with flaming reds, fresh greens and vibrant blues on an available 1920x1080 Full HD™ LCD.

The 16:9 aspect ratio ensures that you won't miss an inch of the original picture from your favorite movie while also providing valuable extra workspace. Compare two documents or websites side-by-side without the hassle of having to tab back and forth.

With optional Blu-ray Disc™ technology, you can archive or record 25-50GB of home movies, music and digital photos to a single Blu-ray Disc™ media (sold separately).

An HDMI™ output delivers video and audio to external sources via a single cable so you can enjoy HD entertainment on your compatible big screen TV (HDMI™ cable sold separately).

STUNNING MULTIMEDIA FEATURES

The VAIO® FW notebook, designed with dedicated AV Controls, makes navigating through your favorite multimedia quick and easy.

Editing digital video or images is quick and easy with VAIO® Movie Story software. You choose the supplied template and professional-looking cutaways, cross-fades and soundtrack syncing are automatically done for you.

Stay connected to colleagues, friends and family with real-time video conferencing [17] using the integrated MOTION EYE® camera and microphone.

Featuring a brilliant, extra-wide 16.4"[4] LCD display. Great for viewing Blu-ray Disc™ movies[18] (configurable feature) or two web sites side-by-side minimizes those annoying black bars you see when playing widescreen movies. Powered by ATI™ dedicated graphics and available with Intel® Centrino® 2 Processor Technology.

VGN-FW590 Configure-to-Order

VAIO® FW Series Notebook PC

Specifications

General

Computer Type: Notebook

Type of Use: Portable

Action Buttons: S1, DVD Play, A/V Mode, Volume - / +, Play / Pause / Stop, Wireless/ Bluetooth® on / off

Pointing Device: Electro-static touch pad

Hardware

Keyboard: QWERTY, 86 keys with 2mm stroke and 19.05mm pitch

Camera: Built-in MOTION EYE® camera and microphone with face-tracking technology

Processor

Type: Intel® Core™ 2 Duo Processor T9900 (Configuration 1), Intel® Core™ 2 Duo Processor T9600 (Configuration 2), Intel® Core™ 2 Duo Processor P8800 (Configuration 3), Intel® Core™ 2 Duo Processor P8700 (Configuration 4), Intel® Core™ 2 Duo Processor P7450 (Configuration 5), Intel® Core™ 2 Duo Processor T6600 (Configuration 6)

Speed: 3.06GHz[1] (Configuration 1), 2.80GHz[1] (Configuration 2), 2.66GHz[1] (Configuration 3), 2.53GHz[1] (Configuration 4), 2.13GHz[1] (Configuration 5) or 2.20GHz[1] (Configuration 6)

Front Side Bus Speed: 1066MHz (Configurations 1-5) or 800MHz (Configuration 6)

L2 Cache: 6MB (Configurations 1-2), 3MB (Configurations 3-5) or 2MB (Configuration 6)

Technology: Intel® Centrino® 2 processor technology (available with configurations 1-5), Intel® Dual Core® processor technology (available with configuration 6)

Memory

Installed: 8GB PC2-6400 (4GBx2) 6GB PC2-6400 (4GBx1 + 2GBx1), 4GB PC2-6400 (2GBx2), 3GB PC2-6400 (2GBx1 + 1GBx1), 2GB PC2-6400 (2GBx1)

Maximum: 8GB

Type / Speed: DDR2 / 800MHz

Hard Drive

Capacity: 500GB[2] (Configuration 1), 320GB[2] (Configuration 2), 500GB[2] (Configuration 3), 250GB[2] (Configuration 4), 256GB[2] (Configuration 5) or 128GB[2] (Configuration 6)[23]

Speed: 5400rpm (Configurations 3 and 4), 7200rpm (Configuration 1-2)

Type: Serial ATA

Technology: Solid State Drive (Configurations 5 and 6)

Optical Drive

BD-R DL Read: 2x max (available with BD-ROM and Blu-ray Disc option)

BD-R DL Write: 2x max (only available with Blu-ray Disc option)

BD-R Read: 4x max (available with BD-ROM and Blu-ray Disc option)

BD-R Write: 4x max (only available with Blu-ray Disc option)

BD-RE DL Read: 2x max (available with BD-ROM and Blu-ray Disc option)

BD-RE DL Write: 2x max (only available with Blu-ray Disc option)

BD-RE Read: 2x max (available with BD-ROM and Blu-ray Disc option)

BD-RE Write: 2x max (only available with Blu-ray Disc option)

BD-ROM Read: 4x max (available with BD-ROM and Blu-ray Disc option)

Blu-ray Disc™ Support: Read[18] Only (BD-ROM) or Read[18] / Write (BD-R / BD-RE / BD-ROM)

CD Support: Read / Write (CD / -R / -RW)

DVD Support: Read / Write (DVD±R / ±RW / ±R DL / -RAM)

Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ (Standard / Duo) media slot with MagicGate® technology
One ExpressCard® / 34 media slot
One Secure Digital (SD™ memory card) media slot

Audio

Sound System: Dolby Sound Room® Audio

Display

Screen Size: 16.4"[4]

Resolution: 1600 x 900 or 1920 x 1080 (available only with 1GB VRAM)

Technology: Full HD (1920x1080 only)

Graphics

Processor: ATI Mobility Radeon™ HD 4650 with Total Available Graphics Memory of up to 4091MB[13] (max.) (depending on RAM and OS configuration)

Video RAM: 1GB or 512MB of dedicated video RAM

Chipset: Mobile Intel® PM45 Express Chipset

Max. External Resolution via VGA: 2048 x 1536

Max. External Display Resolution via HDMI™ : 1920 x 1080[16]

Inputs and Outputs

Microphone Input: 1

USB Port(s): 3 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[7]

Headphone Output(s): 1

Ethernet Connection (s): 1

HDMI™ Output: 1

Power

Battery Type: Standard Capacity Lithium-ion Battery or Large Capacity Lithium-ion Battery

Estimated Battery Life: Up to 3.5 hours[8] Standard Capacity Battery
Up to 5.5 hours[8] Large Capacity Battery

Power Requirements: 105W + 10%

Start-up Times

Average Boot Time: 60 sec[21]

Average Resume Time from Suspend: 2 sec[21]

First Boot Time: 5 min[22]

Wireless/Networking

Ethernet Protocol: 10Base-T/100Base-TX/1000Base-T (Gigabit)

Ethernet Speed: Fast Ethernet (RJ-45)

Wi-Fi: Intel® WiFi Link 5100AGN (802.11a / b / g / n)[3]

Bluetooth® Technology: Integrated Stereo A2DP (2.1 + EDR)[12]

Software

Operating System: Genuine Microsoft® Windows® 7 Ultimate 64bit[14], Professional 64bit or Home Premium 64bit[14]

Supplied Software: Microsoft® Works SE 9.0 w / 60-Day Trial Version of Microsoft® Office Home and Student 2007[11]

The VAIO® Software Experience: VAIO Care™ - System diagnostics and maintenance

VAIO® Multimedia Suite: VAIO® Movie Story - Simple Movie Creation VAIO® Media plus - Multimedia Streaming Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Anti-Virus Software: Norton Internet Security™ 2009 30-Day Trial Offer[15]

Service and Warranty Information

Telephone Support: 1 year toll-free technical assistance available 24/7[10] at 888-476-6972

Online and Email Support: Available at http://www.esupport.sony.com/EN/VAIO

Onsite / In-Home Service: 1 year limited warranty with Onsite / In-Home Service[20]. See actual warranty for details.

Limited Warranty Term: 1 year limited warranty[9]. See actual limited warranty for details.

Environmental Information

EPEAT™ : Silver

RoHS®: Compliant

ENERGY STAR®: 5.0

Dimensions

Weight: 6.9 lbs[5] (with standard capacity battery)

Measurements: 15.1"(W) x 1.14-1.46"(H) x 10.3"(D)[5,6]

Supplied Accessories

Standard Lithium-ion battery

AC Adapter

Power Cable

Optional Accessories

Large Capacity Battery (VGP-BPL13)

Additional Standard Capacity Battery (VGP-BPS13A/B)

Stick AC Adapter (VGP-AC19V30)

AC Adapter (VGP-AC19V31)

Neoprene Case (VGP-AMC7)

Classic Messenger Bag (VGP-AMB10/R)

Deluxe Messenger Bag (VGP-AMB11/L)

Urban Messenger Bag (VGP-AMB12)

Bluetooth® Remote Mouse[12] (VGP-BMS80)

Bluetooth® Laser Mouse[12] (VGP-BMS33/B)

Bluetooth® Keyboard[12] (VGP-BKB1)

Color: Black, Chocolate Brown

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services.
4. Viewable area measured diagonally.
5. Non-metric weights and measures are approximate and may vary.
6. Measured at the narrowest point.
7. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
8. Actual battery life may vary based on product settings, usage patterns and environmental conditions.
9. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.esupport.sony.com, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913
10. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
11. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.
12. Interoperability and compatibility among Bluetooth® devices vary.
13. Total Available Graphics Memory refers to the new Windows® 7 classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.
14. Compatibility and performance in a 64 bit environment may vary.
15. Norton Internet Security™ 2009 30-day subscription is pre-installed on your Sony VAIO PC. You need to activate the software for the product to work. After your 30-days are finished, buy Norton Internet Security to continue to be protected from viruses, hackers and identify theft.
16. Requires high definition-capable display with HDMI™ connector. Image quality will vary.
17. Broadband Internet service required along with third party services which may require a subscription or other service fee.
18. Certain circumstances may limit / prevent Blu-ray Disc™ media playback.
20. When available, Sony will provide Onsite / In-Home Service in fulfillment of its limited warranty obligations. Any such services are subject to the terms and conditions of the limited warranty. See actual Limited Warranty for details. Onsite / In-Home Service will be provided via third-party technician to be dispatched as needed following phone-based troubleshooting. Some repairs may be accomplished with self repair kits. Onsite / In-Home Service may not be available in all locations.
21. Based on original factory image and will vary with product configuration changes and additional software added to the hard drive.
22. Excluding end user interaction
23. This configuration may not be enough HDD capacity for 50G size BD authoring ".

Computer Interface: For this product, there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and / or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are non-metric weights and measures are approximate and may vary.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. This product meets Energy Star guidelines for energy efficiency. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
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